

B⁴ 11. (Amended) The expression cassette of claim 10, wherein said promoter is selected from the group of promoters consisting of: cim1, cZ19B1, gamma-zein, glob-1 and phaseolin.

B⁵ 56. (Amended) A method for manipulating gum production in a plant of interest, comprising the steps of:

- a) transforming plant cells with at least one nucleotide sequence encoding an enzyme in a galactomannan biosynthetic pathway or an antisense RNA thereto; wherein said nucleotide sequence is operably linked to a promoter that drives expression in a plant;
- b) screening the plant cells transformed in step (a) for stable expression of said enzyme or said antisense RNA to obtain positive cultures;
- c) regenerating said positive cultures into a plant; and
- d) growing the plant from step (c).

B⁶ 65. (Amended) A recombinant plant cell having stably incorporated into its genome at least one nucleotide sequence encoding an enzyme in a galactomannan biosynthetic pathway or an antisense RNA to an enzyme in a galactomannan synthetic pathway; wherein said nucleotide sequence is operably linked to a promoter that drives expression in a plant.

66. (Amended) A transformed plant having stably incorporated into its genome at least one nucleotide sequence encoding an enzyme in a galactomannan biosynthetic pathway or an antisense RNA to an enzyme in a galactomannan synthetic pathway; wherein said nucleotide sequence is operably linked to a heterologous promoter that drives expression in a plant cell.

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73. (Amended) Variants of the recombinant protein of claim 71.

Please add new claim 76 as follows:

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- 76. The method of claim 14, wherein said nucleotide sequence is selected from the group consisting of:
- a) a nucleotide sequence encoding a GDP-mannose pyrophosphorylase that is native to maize or a leguminous plant;
 - b) a nucleotide sequence encoding the amino acid sequence of SEQ ID NO:2;
 - c) a nucleotide sequence set forth in SEQ ID NO:1;
 - d) a nucleotide sequence comprising at least 20 contiguous nucleotides of SEQ ID NO:1;
 - e) a nucleotide sequence having at least 90% identity to a nucleotide sequence of a), b), c) or d);
 - f) a nucleotide sequence that hybridizes to a nucleotide sequence of a), b), c), d) or e) under stringent conditions; and
 - g) a nucleotide sequence encoding an antisense RNA of a nucleotide sequence of a), b), c), d), e) or f) ;and fragments and variants thereof.

In the drawings:

Please cancel Figures 1-4.

In Inventorship:

Please delete the following inventors: Xun Wang and Benjamin A. Bowen.